

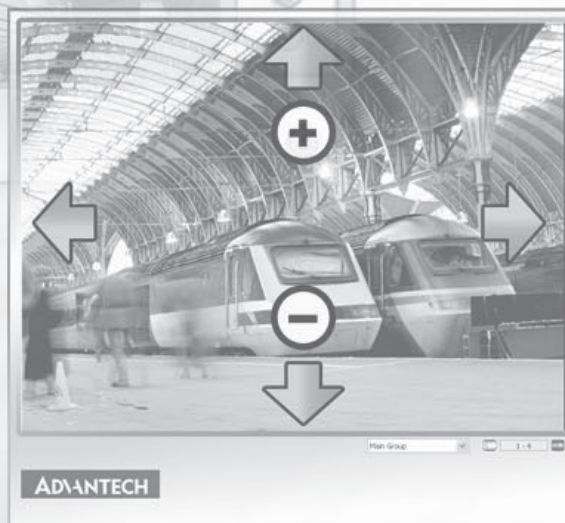
Industrial Video Products

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IP Video Servers	
NVS-3510 (New)	1-ch DIN-rail H.264 IP Video Server
NVS-3520 (New)	2-ch DIN-rail H.264 IP Video Server
Video Capture Cards	
DVP-1412E	1-ch USB MPEG-4 Video Capture Module with SDK
DVP-2642 (New)	4-ch PCI-104 H.264 Video Capture Card with SDK
DVP-5642 (New)	4-ch Mini-PCI H.264 Video Capture Card with SDK
DVP-7642 (New)	4-ch PCI H.264 Video Capture Card with SDK
DVP-8642 (New)	4-ch PCIe H.264 Video Capture Card with SDK
DVP-8662 (New)	16-ch PCIe H.264 Video Capture Card with SDK
DVP-8612H (New)	1-ch PCIe H.264 HD Video Capture Card with SDK

To view all of Advantech's Industrial Video Surveillance Solutions, please visit www.advantech.com/products.



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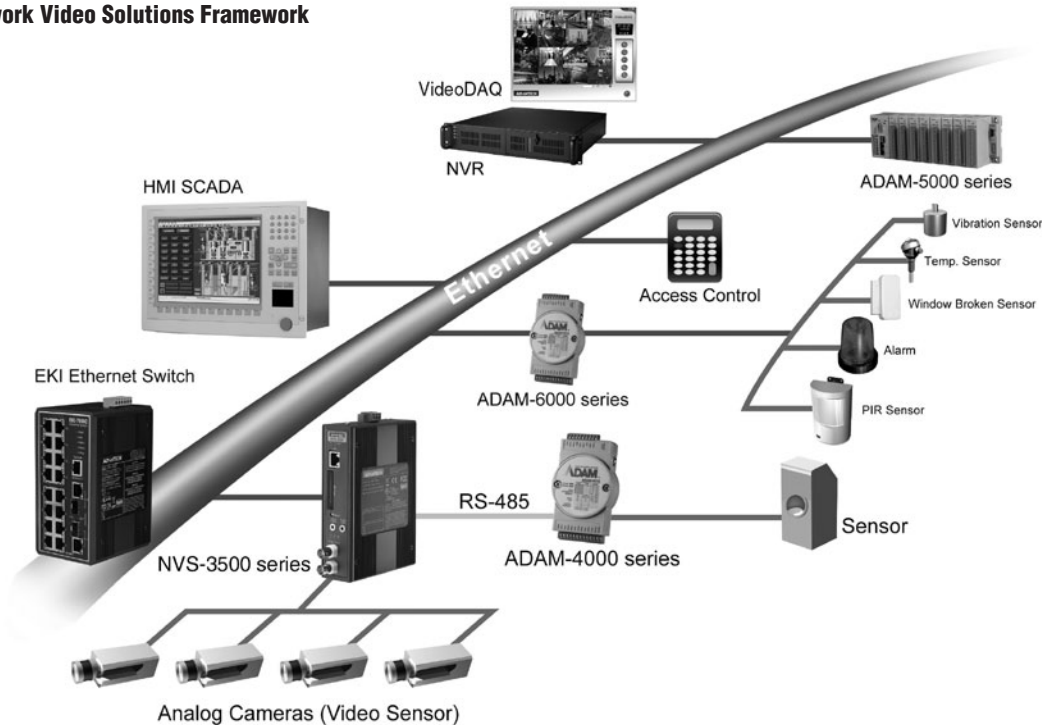


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Industrial Video Surveillance Solutions Introduction

Industrial Network Video Solutions Framework



Market and Technology Trends

Much like the consumer market, video surveillance technology has progressed from analog to digital (DVR) devices, and now includes internet streaming video technology (IP-based video surveillance). In fact, traditional video currently has a slow growth rate, and conversely, IP-based video surveillance is booming. An IMS study reported that the demand for reliable video surveillance is increasing at a CAGR of 38% and will achieve a market value of USD \$4 billion by 2011.

Contributing to this explosive growth are new video compression technologies, specifically MPEG4 and H.264. This provides high-quality images with low levels of video streaming data, which makes it easy to transfer via PC across the internet. Users can enjoy good quality video content in anywhere via internet, PMD (Portable Mobile Device) and 3G cell phones. In this new era of streaming video content, Advantech has created an all new video surveillance environment for automation applications. We call this our "information enabled" Video Surveillance System which is designed to manage video surveillance within automation applications. By providing PC-based products and solutions to serve the automation market, Advantech is leading the way with cutting-edge technology and value-added solutions.

Customer Value Proposition: Relevant Onscreen Information & Intelligent Video Systems

Advantech provides advanced intelligent video functions and innovative technology that allows field data to be easily displayed onscreen. Users can interact with real-time events and simultaneously look up field data on-screen to help them better manage the safety and security of their systems. For industrial security applications, live monitoring is not enough for vertical market needs. Restricted areas need to be monitored with intelligent video functions for more efficient management. In addition, there is more and more major equipment in factories that need to be measured not only by running status and controlling data, but also by live video monitoring to help operators and service engineers easily maintain and diagnose equipment, operating data, and status, such as in boiler, furnace, compressor, and gas piping applications.

Advantech offers complete industrial video surveillance solutions for vertical market applications, such as government infrastructure & utilities, transportation, factory facility and environment markets.

IP-based Video Surveillance

IP-based video surveillance technology is a new trend in the automation market, largely due to new video compression technology. As a leading provider of IP-based solutions, Advantech has provided Industrial Video Servers with MPEG4 and H.264 video compression technology and multi video streaming to meet market needs.

Information Enabled Video Surveillance Solutions

Receiving clear video images and information is key to fast response in the event of an emergency. Advantech's video surveillance solutions provide advanced functionality to improve existing video surveillance, for example users can define information content, size, color, position, and action items on the video screen. The fonts and colors of data information can be customized to flash when an alarm occurs.

Intelligent Video: Video Content Analysis

Traditional video surveillance products provide only basic video monitoring functions. Advantech's video content analytics and intelligence functions enable efficient event detection, analysis and management processes, thus extending the intelligent video object functionality of IP-based video surveillance.

Technological advancements in IP and video compression, and increased awareness to the value of video surveillance have led to increase of intelligent video surveillance applications. Our Video surveillance solutions provide these intelligent video functions, such as virtual fence, unattended object, car/people counting and more.

Network-based Video Solutions for Industrial Automation

Seeing is believing, according to the old saying. That explains some of the advantages video surveillance has to offer for industrial automation. With cameras and the right technology, operators and engineers can survey a scene in a remote or dangerous area with ease. Also, they can be in many places at once, seeing with their own eyes what is happening without risking their safety. The challenge, however, is how to see intelligently. Staring at a screen is not the answer, since in such a setting it's all too easy to lose focus and miss an important event. Fortunately, advances in digital video compression and other technologies have made the job easier. They provide a way to combine what the camera sees with other data, presenting information in real time so that a more intelligent decision can be made. They also allow tracking video to be synchronized with alarm logs and stored for later analysis.

Benefits for video surveillance in industrial automation:

- Increases safety
- Improves productivity
- Cuts response time
- Enables more intelligent decisions
- Enhances record keeping

Industrial Video Servers

IP video servers are designed for delivering digital video streams in network environments. Normally the input side is the analog video data from CCTV cameras, and the output is the video stream with IP protocols. There are 3 major units in the video server for handling the video data: TV decoder, video compression engine and network processor. The TV decoder transfers the analog video data from CCTV camera to digital video data, and the digital video data will be compressed by the video compression engine (the major compression technologies now are MJPEG, MPEG4 and H.264). The compressed video data will finally be transferred to IP video stream through the network processor.

IP video servers play a significant role for network video applications, especially for video surveillance systems upgrading from DVR to IP-based. With cutting-edge technologies, Advantech provides series of industrial-grade IP video servers to fulfill the needs in industrial automation fields. The Advantech IP video servers provide real-time video performance with multiple streaming. Integrated with RS-485 serial ports, digital I/O, 2-way audio and local storage (like SD cards), Advantech IP video servers support many additional functions for enhancing the security and safety.

Information On-Screen

The RS-485 port of the IP video server is used for the PTZ (Pan/Tilt/Zoom) control of CCTV cameras. Connecting with ADAM-4000 series, Advantech IP video servers utilize RS-485 ports for collecting I/O information (like temperature, pressure) and post this information on the video frame through OSD functionality. This information-enabled video showing the status of the monitored object not only improves safety and productivity, but also reduces the response time and probability of accidents.



Target Applications

- Factory Automation
- Transportation
- Environment Automation
- Building Automation

Integration with HMI/SCADA

Integrating video surveillance with HMI/SCADA systems is now a trend of automation applications. Advantech IP video servers support many SCADA systems making it easy for system integrators to build network video systems with both video surveillance and SCADA. Aside from enhanced security, safety and productivity, this integration also reduces construction costs.

VideoDAQ NVR Software

Designed for network video monitoring and recording, the VideoDAQ NVR software is bundled with Advantech IP video servers for free. This smart NVR software supports up to 16 channels of live views and recording with D1 (720 x 480) resolution at 30/25 frames per second, and this high performance can be achieved just with only an entry-level PC. The versatile screen modes and playback, manual/schedule recording settings are also available to meet a variety of video surveillance system needs.

Software Development Kit (SDK)

Customized system development is always required by the system integrators in automation applications. In order to meet the particular requirement for different vertical markets, Advantech provides a flexible SDK with the IP video servers. With this SDK, experienced system integrators can develop unique applications for IP video servers, or embed video streams in specified applications.

- 1 Operator Panels
- 2 Panel Computers
- 3 Display Solutions
- 4 Ethernet Switches
- 5 Device Servers
- 6 Serial Communication Cards
- 7 Video Surveillance
- 8 IPC Chassis
- 9 SBCs and Backplanes
- 10 Industrial Motherboards
- 11 Embedded IPCs
- 12 Server-grade IPCs
- 13 IPC Peripherals
- 14 DAQ Boards
- 15 Signal Conditioning
- 16 USB DAQ Modules
- 17 Embedded Controllers
- 18 PACs

Industrial Video Product Selection Guide

H.264 Video Servers

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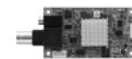
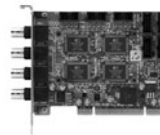


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Model Name	NVS-3520	NVS-3510
Description	2-ch DIN-rail H.264 IP Video Server	1-ch DIN-rail H.264 IP Video Server
Form Factor	DIN-rail	
Video Standard	Composite for NTSC / PAL	
Video Compression	H.264 / MPEG4 / MJPEG	
Video Channel	2	1
Stream per Channel	Dual Stream	
Audio	2-way	
Audio Compression	a-law / mu-law / PCM	
Resolution	QCIF / CIF / VGA / D1	
Frame Rate (NTSC/PAL)	30 / 25 fps	
Network Interface	1 x RJ-45 wired 10/100 Base-TX	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS, RTP/RTSP	
PoE Power Input	IEEE 802.3af	
RS-485	2	
DI/DO	4xDI + 2xDO	
SD/SDHC Card	1	
Others	Information On-Screen (Integrate I/O data with Video)	
Software Bundle	VideoDAQ software and SDK	
Operating Temperature	-10 ~ 60° C (14 ~ 140° F)	
Dimension (W x D x H)	106 x 43 x 152 mm	
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MPEG-4 Video Capture Cards



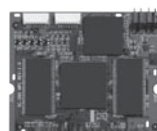
Model Name	DVP-7010BE	DVP-7020BE	DVP-1412E
Video Standard	Composite for NTSC / PAL		
Format	MPEG-4		
Compression	Software Compression		
Video Input	4	16	1
Audio Input	-	-	1
Resolution	QCIF / CIF / D1		
Recording Rate (NTSC/PAL)	30 / 25 fps(CIF)	120 / 100 fps(CIF)	30 / 25 fps(D1)
Display Rate (NTSC/PAL)	30 / 25 fps(CIF)	120 / 100 fps(CIF)	30 / 25 fps(D1)
Interface	PCI v2.2	PCI v2.2	USB 2.0 High Speed
Operating Temperature	-10 ~ 60° C (14 ~ 140° F)		
Storage Temperature	-20 ~ 70° C (-4 ~ 158° F)		
Supported OS	Windows 2000 / Windows XP / Windows XP Embedded		
Platform Requirements	CPU: Intel Pentium 4, 2.0GHz or above		
Demo Program	Complete demo program with VC++ sample code for reference		
DirectX	Version 9 or later		
Dimensions	125.38 x 97.25 mm	125.38 x 97.25 mm	70 x 38 mm
Page	online	online	7-7

H.264 Video Capture Cards

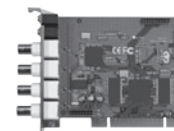
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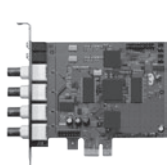


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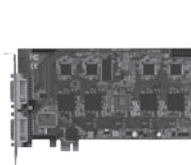


Model Name	DVP-2642-AE	DVP-5642-AE	DVP-7642-AE
Video Standard	Composite for NTSC/PAL		
Format	H.264		
Compression	Hardware Compression		
Video Input	4		
Audio Input	4		
Resolution	QVGA / CIF / VGA / D1 / Full D1		
Recording Rate (NTSC/PAL)	30 / 25 fps (Full D1)		
Display Rate (NTSC/PAL)	30 / 25 fps (CIF)		
Interface	PCI-104	Mini-PCI	PCI
Operating Temp.	-10 ~ 60° C (14 ~ 140° F)		
Storage Temp.	-20 ~ 70° C (-4 ~ 158° F)		
Supported OS	Windows XP / Windows Vista / Windows 7 / Linux 2.6.14 or later		
Platform Req.	CPU: Intel Pentium4, 2.0GHz or above		
Demo Program	Complete demo program with VC++ sample code for reference		
DirectX	Version 9 or later		
Dimension	96.0 x 89.2 mm	59.6 x 50.95 mm	120.52 x 85.0 mm
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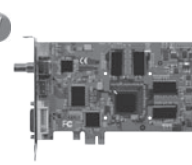
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Model Name	DVP-8642-AE	DVP-8662-AE	DVP-8612H-AE
Video Standard	Composite for NTSC/PAL		
Format	H.264		
Compression	Hardware Compression		
Video Input	4	16	1
Audio Input	4	16	1
Resolution	QVGA / CIF / VGA / D1 / Full D1		D1 / HD / Full HD
Recording Rate (NTSC/PAL)	30 / 25 fps (Full D1)		30 / 25 fps (Full HD)
Display Rate (NTSC/PAL)	30 / 25 fps (CIF)		30 / 25 fps (Full HD)
Interface	PCI-E		PCI-E
Operating Temp.	-10 ~ 60° C (14 ~ 140° F)		0 ~ 70° C (32 ~ 158° F)
Storage Temp.	-20 ~ 70° C (-4 ~ 158° F)		-20 ~ 70° C (-4 ~ 158° F)
Supported OS	Windows XP / Windows Vista / Windows 7 / Linux 2.6.14 or later		
Platform Req.	CPU: Intel Pentium4, 2.0GHz or above		
Demo Program	Complete demo program with VC++ sample code for reference		
DirectX	Version 9 or later		
Dimension	111.0 x 104.0 mm	190.0 x 106.65 mm	100.1 x 155.0 mm
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Operator Panels

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NVS-3510

NVS-3520

1-ch DIN-rail H.264 IP Video Server

2-ch DIN-rail H.264 IP Video Server

NEW



Features

- 1 or 2-ch DIN-rail video server
- H.264 / MPEG4 / MJPEG dual streaming
- Up to D1@30fps for each channel
- 2-way audio function
- RS-485 for PTZ control and Modbus serial device control
- DI/O for proactive alarms and control
- Supports SD/SDHC cards up to 32GB for local backup
- Supports PoE (Power over Ethernet)
- Supports Information On-Screen
- Bundled with VideoDAQ monitoring software

Introduction

NVS-3510/3520 are industrial-grade, 1 or 2-ch DIN-rail video servers with H.264 / MPEG4 / MJPEG compression technology. NVS-3510/3520 support up to D1 resolutions and real-time frame rate (30fps@NTSC / 25fps@PAL) for live viewing and recording. The serial ports of RS-485 and digital I/O provide the functions of Camera PTZ (Pan/Tilt/Zoom) control and proactive alarm function. To enhance the security level, NVS-3510/3520 support SD/SDHC cards up to 32GB as a local backup storage when the network is broken. NVS-3510/3520 also support PoE (Power over Ethernet) functionality and can be used with PoE Ethernet switches. Information On-Screen provides the ability to show I/O data on the video frame. This allows users to view real-time status of the monitored object. With Advantech's VideoDAQ software, NVS-3510/3520 are ideal solutions in video networking for industrial automation applications.

Specifications

Video

- **Channels** NVS-3510: 1
NVS-3520: 2
- **Resolution** QCIF/CIF/4CIF/D1
- **Compression** H.264/MPEG4/MJPEG
- **Video Stream** Dual-stream each channel with different settings
- **Frame Rate** up to 30fps @NTSC / 25fps @PAL (adjustable)
- **Bit Rate Control** Supports constant bit rate (CBR) & variable bit rate (VBR)
- **OSD** Date/Time/Title
- **iOSD** Information from analog device
- **Connector** BNC, male / 1.0Vp-p, 75ohms

Audio

- **Channels** 1x line-in, 1x line-out
- **Sampling Rates** 8 KHz, line-in, mono
- **Compression** a-law / mu-law / PCM
- **Audio-out** Line-out
- **Connector** Phone jack, Female

Network

- **LAN Ports** 1 x Ethernet wired, 10/100M Base-TX
- **Protocols** TCP/IP, UDP, HTTP, DHCP, NTP, DNS, RTP/RTSP, Modbus/TCP, Modbus/RTU
- **Connector** RJ-45 wired

Power & Peripherals

- **PoE** IEEE 802.3af PoE Standard
- **Power Plug** 10~30 V_{DC}/2pin, 5.08 Terminal Block
- **Serial Port** 2x RS-485 (1 for PTZ control; 1 for Modbus serial device control)
- **DI/O** DI x 4
Logic 0: +0 ~ 3 V_{DC}
Logic 1: +10 ~ 30 V_{DC}
Type: Wet contact
DO x 2, 24 V_{DC} 1 A
Type: Relay, Form C
- **SD Card** 1 SD card slot supports SD/SDHC up to 32GB

Software (VideoDAQ)

- **IP Search** Auto-scan installed IP devices from LAN
Network settings
- **Live View** 1/4/6/7/8/9/10/13/16 split modes
Channels grouping
Screen modes switching by schedule
2-way Audio / Video delay time < 0.3sec
- **Recording** Provides MOV, AVI, MP4 file formats
Manual over-write setting when the storage is full
Supports Schedule / Manual recording
- **Playback** Playback by time bar and calendar
Supports multiple channels playback simultaneously

Software Development Kit (provided upon request)

- **Video Server** HTTP CGI command sets
RTSP stream command sets
- **VideoDAQ** ActiveX SDK
Sample codes

Physical Characteristics

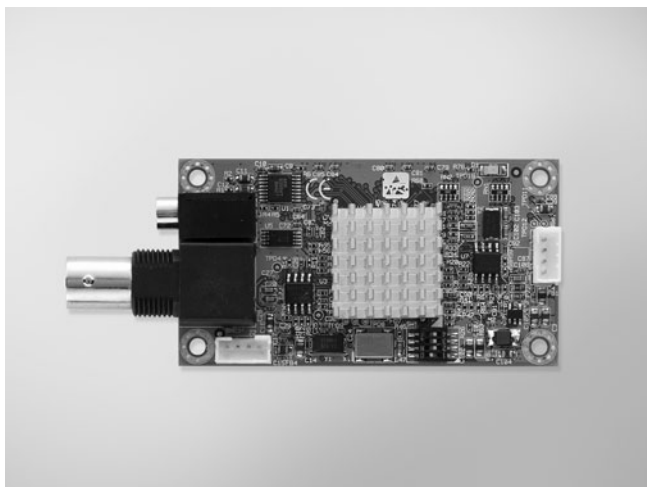
- **Power Consumption** DC 24V / 375mA / 9Watt
- **Operating Temperature** -10~ 60° C (14 ~ 140° F)
- **Dimensions (W x D x H)** 106 x 43 x 152 mm
- **Safety** CE / FCC / RoHS

Ordering Information

- **NVS-3510** 1-ch DIN-rail H.264 IP Video Server
- **NVS-3520** 2-ch DIN-rail H.264 IP Video Server

DVP-1412E

1-ch USB MPEG-4 Video Capture Module with SDK



Features

- 1 channel composite inputs with MPEG-4 hardware compression
- Supports ADPCM hardware audio compression
- Able to install 8 DVP-1412E for up to 8 channels per PC
- 30/25 fps (NTSC/PAL) at D1 resolution for recording and display
- 16 x 16 OSD text of up to 96 characters
- High speed USB 2.0 interface
- SDK supports Windows XP/XPe/Windows 2000 with VC++ sample codes

Introduction

The DVP-1412E is compact-sized, hardware MPEG-4 video encoder module that are designed for embedded video/audio applications and simple digital video upgrade solutions. It can be easily integrated into many different types of hardware, like Panel PCs, ATMs, and embedded PCs. The DVP-1412E are capable of delivering streaming video up to full D1 resolution at full-motion frame rates. By using a standard high-speed USB 2.0 interface, the DVP-1412E can easily integrates with most Single Board Computers or PC-based systems. Using 128-byte EEPROM, programmers can write protection codes or set system parameters via the SDK. DVP-1412E delivers standard composite video and audio input through BNC connectors and comes complete with SDK and driver for MS Windows 2000 or XP. All these great features make the DVP-1412E very easy for system integrators to develop applications. DVP-1412E are the ideal compact embedded digital video and audio solution for multiple applications.

Specifications

Video

- **Video Standard** Composite for NTSC/PAL
- **Video Input** 1 x BNC connector
- **Resolution** Up to D1 (NTSC: 720 x 480; PAL: 720 x 576)
- **Max Recording Rate** 30/25 fps (NTSC/PAL)
- **Display Rate** 30/25 fps (NTSC/PAL)
- **Video Compression** MPEG-4

Audio

- **Audio Input** 1 x stereo input (Phone Jack)
- **Audio Encoding** ADPCM H/W encoding

Software Development Kit

- **Operating System** Supports Windows XP/XPe and Windows 2000
- **DirectX Required** Version 9 or above
- **Demo Program** Complete demo program with VC++ sample code for reference

Physical Characteristics

- **Host Interface** USB 2.0 High Speed
- **Operating Temperature** -10 ~ 60° C (14 ~ 140° F)
- **Storing Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Dimensions** 70 x 38 mm (2.75" x 1.49")

Versatile SDK Support

Advantech provides software development kit (SDK), a set of development tools that allows a software engineer to integrate our capture card into many different types of system. Functions include video recording, playback, and instant preview.

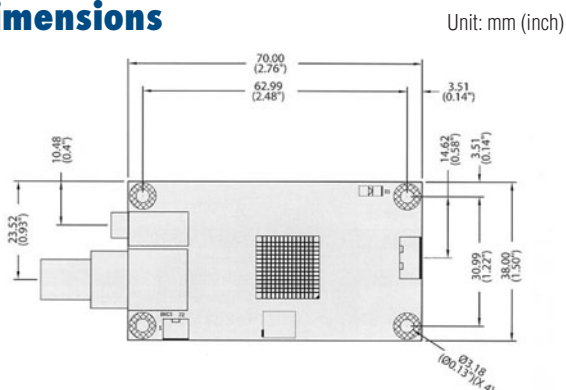
The SDK package would include:

- Software Library
- SDK Manual
- Sample Program

Ordering Information

- **DVP-1412E** 1-ch USB MPEG-4 Video Capture Module w/ SDK

Dimensions



- Operator Panels
- Panel Computers
- Display Solutions
- Ethernet Switches
- Device Servers
- Serial Communication Cards
- Video Surveillance
- IPC Chassis
- SBCs and Backplanes
- Industrial Motherboards
- Embedded IPCs
- Server-grade IPCs
- IPC Peripherals
- DAQ Boards
- Signal Conditioning
- USB DAQ Modules
- Embedded Controllers
- PACs

DVP-2642

DVP-5642

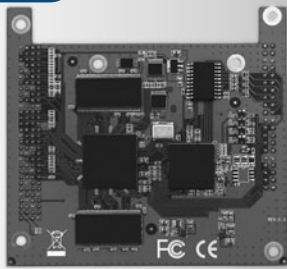
DVP-7642

**4-ch PCI-104 H.264
Video Capture Card with SDK**

**4-ch Mini-PCI H.264
Video Capture Card with SDK**

**4-ch PCI H.264
Video Capture Card with SDK**

NEW

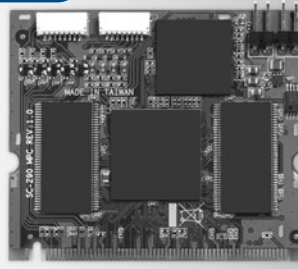


DVP-2642



FCC CE

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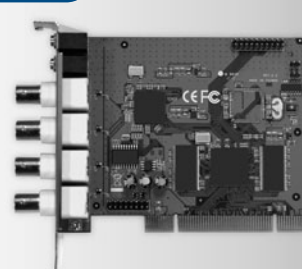


DVP-5642



FCC CE

NEW



DVP-7642



FCC CE

Features

- 4 channel composite inputs with H.264 hardware compression
- PCI-104 interface
- Able to insert 4 cards for up to 16 channels per PC
- 30/25 fps (NTSC/PAL) at full D1 resolution for recording
- SDK supports 32-bit/64-bit Windows XP/Vista/7 and Linux 2.6.14 or later
- Supports watchdog function

Specifications

Video

- Video Standard** Composite for NTSC/PAL
- Video Input** 4 channels (4 pins)
- Resolution** QVGA/CIF/VGA/D1/Full D1
- Max Record Rate** 30/25 fps (NTSC/PAL) for each channel
- Display Rate** 30/25 fps (NTSC/PAL) for each channel
- Video Compress.** H.264

Audio

- Audio Input** 4 internal pins
- Audio Encoding** PCM

Software Development Kit

- Operating System** Supports 32-bit/64-bit Windows XP/Vista/7 and Linux 2.6.14 or later
- DirectX Required** Version 9 or later
- Demo Program** Complete demo program with VC++ sample code for reference

Physical Characteristics

- Host Interface** PCI-104
- Operating Temp.** -10 ~ 60° C (14 ~ 140° F)
- Storage Temp.** -20 ~ 70° C (-4 ~ 158° F)
- Dimensions** 96 x 89.2 mm (3.78" x 3.51")

Ordering Information

- DVP-2642-AE** 4-ch H.264 PCI-104 Video Capture Card w/ SDK

Features

- 4 channel composite inputs with H.264 hardware compression
- Mini-PCI interface
- Able to insert 4 cards for up to 16 channels per PC
- 30/25 fps (NTSC/PAL) at full D1 resolution for recording
- SDK supports 32-bit/64-bit Windows XP/Vista/7 and Linux 2.6.14 or later
- Supports watchdog function

Specifications

Video

- Video Standard** Composite for NTSC/PAL
- Video Input** 4 channels (4 pins)
- Resolution** QVGA/CIF/VGA/D1/Full D1
- Max Record Rate** 30/25 fps (NTSC/PAL) for each channel
- Display Rate** 30/25 fps (NTSC/PAL) for each channel
- Video Compress.** H.264

Audio

- Audio Input** 4 internal pins
- Audio Encoding** PCM

Software Development Kit

- Operating System** Supports 32-bit/64-bit Windows XP/Vista/7 and Linux 2.6.14 or later
- DirectX Required** Version 9 or later
- Demo Program** Complete demo program with VC++ sample code for reference

Physical Characteristics

- Host Interface** Mini-PCI
- Operating Temp.** -10 ~ 60° C (14 ~ 140° F)
- Storage Temp.** -20 ~ 70° C (-4 ~ 158° F)
- Dimensions** 59.6 x 50.95 mm (2.35" x 2.01")

Ordering Information

- DVP-5642-AE** 4-ch H.264 Mini-PCI Video Capture Card w/ SDK

Features

- 4 channel composite inputs with H.264 hardware compression
- PCI interface
- Able to insert 4 cards for up to 16 channels per PC
- 30/25 fps (NTSC/PAL) at full D1 resolution for recording
- SDK supports 32-bit/64-bit Windows XP/Vista/7 and Linux 2.6.14 or later
- Supports watchdog function

Specifications

Video

- Video Standard** Composite for NTSC/PAL
- Video Input** 4 channels (4 pins)
- Resolution** QVGA/CIF/VGA/D1/Full D1
- Max Record Rate** 30/25 fps (NTSC/PAL) for each channel
- Display Rate** 30/25 fps (NTSC/PAL) for each channel
- Video Compress.** H.264

Audio

- Audio Input** 4 x RCA connectors
- Audio Encoding** PCM

Software Development Kit

- Operating System** Supports 32-bit/64-bit Windows XP/Vista/7 and Linux 2.6.14 or later.
- DirectX Required** Version 9 or later
- Demo Program** Complete demo program with VC++ sample code for reference

Physical Characteristics

- Host Interface** PCI
- Operating Temp.** -10 ~ 60° C (14 ~ 140° F)
- Storage Temp.** -20 ~ 70° C (-4 ~ 158° F)
- Dimensions** 120.52 x 85.0 mm (4.74" x 3.35")

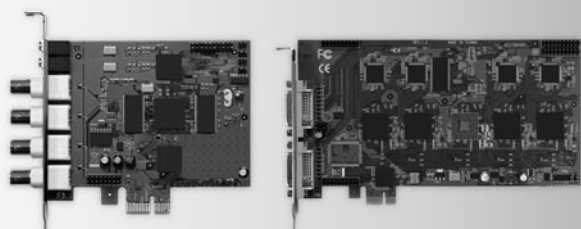
Ordering Information

- DVP-7642-AE** 4-ch H.264 PCI Video Capture Card w/ SDK

DVP-8642 DVP-8662

**4-ch PCIe H.264
Video Capture Card with SDK**
**16-ch PCIe H.264
Video Capture Card with SDK**

NEW



DVP-8642

DVP-8662



Features

- 4-ch / 16-ch composite inputs with H.264 hardware compression
- PCIe interface
- Able to insert 4 cards for up to 16 / 64 channels per PC
- 30/25 fps (NTSC/PAL) at full D1 resolution for recording
- SDK supports 32-bit/64-bit Windows XP/Vista/7 and Linux 2.6.14 or later
- Supports watchdog function

Introduction

The DVP-8642 and DVP-8662 are high-end video capture cards with a hardware H.264 codec engines. They support 4 or 16-channel live preview at CIF resolution and recording and playback at full D1 (NTSC:720x480, PAL:720x576) resolution. Up to four capture cards can be installed in one PC for concurrent live viewing, compression and playback of up to 16 or 64 channels simultaneously. The SDK comes with sample code for reference. The programmer can develop own application easily. The hardware codec engine makes the DVP-8642 and DVP-8662 the ideal platform for applications like network video servers, video conference, video training systems, and high-end digital video surveillance.

Specifications

Video

- **Video Standard** Composite for NTSC/PAL
- **Video Input** DVP-8642: 4 channels (BNC connectors)
DVP-8662: 16 channels (DVI connector)
- **Resolution** QVGA / CIF / VGA / D1 / Full D1
- **Max Recording Rate** 30/25 fps (NTSC/PAL) for each channel
- **Display Rate** 30/25 fps (NTSC/PAL) for each channel
- **Video Compression** H.264

Audio

- **Audio Input** DVP-8642: 4 channels (RCA connectors)
DVP-8662: 16 channels (DVI connector)
- **Audio Encoding** PCM

Software Development Kit

- **Operating System** Supports 32-bit/64-bit Windows XP/Vista/7 and Linux 2.6.14 or later.
- **DirectX Required** Version 9 or later
- **Demo Program** Complete demo program with VC++ sample code for reference

Physical Characteristics

- **Host Interface** PCIe
- **Operating Temperature** -10 ~ 60° C (14 ~ 140° F)
- **Storage Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Dimensions** DVP-8642: 111.0 x 104.0 mm (4.37" x 4.09")
DVP-8662: 190.0 x 106.65 mm (7.48" x 4.20")

CPU Efficiency

With the H.264 hardware codec engine, DVP-8642 and DVP-8662 support triple functions for video encoding, decoding, and live preview. This frees up CPU computing power for other integrated functions. For an existing system, the DVP-8642 and DVP-8662 are ideal ways to expand video functions without a major hardware upgrade.

- Performance Test on Pentium IV 2.4 GHz
- Encoding/Decoding Setting per channel: Full D1(720x480), 30 FPS, H.264

Versatile SDK Support

Advantech provides software development kit (SDK), a set of development tools that allows a software engineer to integrate our capture card into many different types of system. Functions include video recording, playback, and instant preview.

The SDK package would include:

- Software Library
- SDK Manual
- Sample Program

Ordering Information

- **DVP-8642-AE** 4-ch H.264 PCIe Video Capture Card w/ SDK
- **DVP-8662-AE** 16-ch H.264 PCIe Video Capture Card w/ SDK

1

Operator Panels

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Serial Communication Cards

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Video Surveillance

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IPC Chassis

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Industrial Motherboards

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Embedded IPCs

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Server-grade IPCs

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IPC Peripherals

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DAQ Boards

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Signal Conditioning

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USB DAQ Modules

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Embedded Controllers

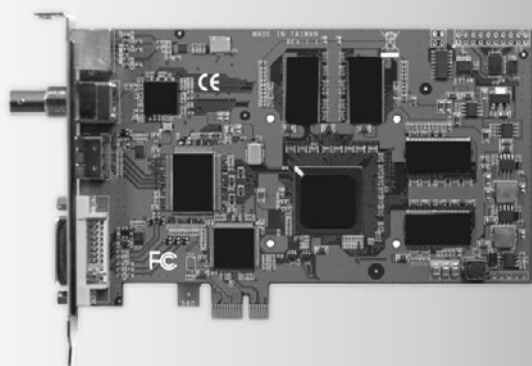
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PACs

DVP-8612H

1-ch PCIe H.264 HD Video Capture Card with SDK

NEW



RoHS
COMPLIANT
2002/95/EC

CE FCC

Features

- 1-ch composite inputs with H.264 hardware compression
- PCIe interface
- Able to insert 4 cards for up to 4 channels per PC
- 30/25 fps (NTSC/PAL) at full HD (1920x1080i/p) resolution for live preview, recording and playback.
- SDK supports 32-bit/64-bit Windows XP/Vista/7 and Linux 2.6.14 or later
- Supports watchdog function

Introduction

The DVP-8612H is a High-Definition (HD) video capture card with a hardware H.264 codec engine. It supports 1-channel live preview, recording and playback at full HD (1920x1080i/p) resolution. Up to four DVP-8612H cards can be installed in one PC for concurrent live viewing, compression and playback of up to 4 channels simultaneously. The SDK comes with sample code for reference. The programmer can develop own application easily. The hardware codec engine makes the DVP-8612H the ideal platform for applications like network video servers, video conference, video training systems, and high-end digital video surveillance.

Specifications

Video

- **Video Standard** Composite for NTSC/PAL
- **Video Input** 1 channel (composite, SDI or DVI connector)
- **Resolution** Full D1 / HD / Full HD
- **Max Recording Rate** 30/25 fps (NTSC/PAL) for each channel
- **Display Rate** 30/25 fps (NTSC/PAL) for each channel
- **Video Compression** H.264

Audio

- **Audio Input** 1 channel
- **Audio Encoding** PCM

Software Development Kit

- **Operating System** Supports 32-bit/64-bit Windows XP/Vista/7 and Linux 2.6.14 or later
- **DirectX Required** Version 9 or later
- **Demo Program** Complete demo program with VC++ sample code for reference

Physical Characteristics

- **Host Interface** PCIe
- **Operating Temperature** 0 ~ 70° C (32 ~ 158° F)
- **Storage Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Dimensions** 100.1 x 155.0 mm (3.94" x 6.10")

CPU Efficiency

With the H.264 hardware codec engine, DVP-8612H supports triple functions-for video encoding, decoding, and live preview. This frees up CPU computing power for other integrated functions. For an existing system, DVP-8612H is an ideal way to expand video functions without a major hardware upgrade.

- Performance Test on Pentium IV 2.4 GHz
- Encoding/Decoding Setting per channel: Full HD (1920x1080i/p), 30 FPS, H.264

Versatile SDK Support

Advantech provides software development kit (SDK), a set of development tools that allows a software engineer to integrate our capture card into many different types of system. Functions include video recording, playback, and instant preview.

The SDK package would include:

- Software Library
- SDK Manual
- Sample Program

Ordering Information

- **DVP-8612H-AE** 1-ch PCIe H.264 HD Video Capture Card w/ SDK